

ZHEKITOV, Yu.P. (Moskva)

Formation of vertical fissures in oil bearing layers by means of  
filterable fluids. Izv.AN SSSR Otd.tekh.nauk no.8:56-62 Ag '57.  
(MIRA 10:11)

(Petroleum engineering)

AUTHOR:

TITLE:

PERIODICAL:

ABSTRACT:

ZHELTOV, YU.P. (Moscow)

PA - 3090

An Approximated Method of Calculating the Dimensions of a Fissure which is Formed by the Break of a Layer brought about by Hydraulic Means. (Ob odnom priblizhennom metode rascheta razmerov treshchin, obrazuyushchikhya pri gidravlicheskom razryve plasta, Russian) Izvestia Akad.Nauk SSSR, Otdel.Tekhn. 1957, Vol 21, Nr 3, pp 180-182 (U.S.S.R.)

Received: 6 / 1957

Reviewed: 7 / 1957

A further development of the calculation method proposed by the author in Izvestia Akad.Nauk SSSR, Otdel.Tekhn.1955, Nr 5, is described. In the first chapter the general conditions and the determining of the boundary displacements of a horizontal fissure are discussed. It is taken for granted that on the boundaries of the fissure a normal stress acts which is distributed according to the law  $\varphi(r)$ . In the undamaged space a state of stress is present which is due to the rock pressure  $q_H = \gamma(H - z)$ .  $\gamma$  is the weight of the rock,  $H$  is the stratification depth of the layer. The fissure plane corresponds to the plane  $z = 0$ . The perpendicular boundary shifts of the fissure  $w(r)$  at  $z = 0$  under the influence of the stresses are assumed so that  $w(r) = 0$  is located everywhere outside of the fissure. The problem of mixed boundary conditions is converted to one with homogeneous boundary conditions. The stress  $\varphi(r)$  is

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APR 1958

Card 1/2

KHRISTIANOVICH, S.A.; ZHELTOV, Yu.P.; BARENBLATT, G.I.

Mechanism of hydraulic fracturing of formations. Neft.khoz.  
35 no.1:44-53 Ja '57. (MLBA 10:2)

(Oil wells) (Petroleum engineering)

ZHELTOV, Y. P., KRISTIANOVICH, S. A., BARENBLAT, G. I., and MAKSIMOVICH, G. K.

"Theoretical Principles of Hydraulic Fracturing of Oil Strata."

<sup>to be</sup>  
Report submitted at the Fifth World Petroleum Congress, 30 May -  
5 June 1959. New York City.

ZHELTOV, Yu. P.

"Restoration of Bottom-hole Pressure Under Conditions of Varying Permeability of Formations in the Bottom-hole Zone and Beyond the Oil Well"

Transactions of the Petroleum Institute, Acad. Sci. USSR, v. 11, Oil Field Industry, Moscow, Izd-vo AN SSSR, 1958. 346pp.

SOV/24-58-11-11/42

\* AUTHORS: Dorozhkin, V. S., Zheltov, Yu. V. and Zheltov, Yu. P.  
(Moscow)

TITLE: On the Movement of a Mixture of Liquid with Sand in the Well and in the Crack During Hydraulic Fracture of an Oil Bearing Stratum (O dvizhenii smesi zhidkosti s peskom v skvazhine i treshchine pri gidravlicheskom razryve neftenosnogo plasta)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 11, pp 37-42 (USSR)

ABSTRACT: In the process of hydraulic breaking up of an oil bearing stratum sand penetrates into the cracks which form in the rocks and the penetrated sand prevents the closing together of these rocks when the liquid pressure is reduced. Until the sand reaches the crack it has to travel a considerable distance along the vertical tube. Therefore, for selecting a rational technology of the process of breaking up a stratum it is important to know the hydro-mechanical picture of motion of a mixture of liquid with sand, both along the crack and in the vertical tube. Special experiments were carried out to verify whether available relations are applicable for such

Card1/2

On the Movement of a Mixture of Liquid with Sand in the Well and  
in the Crack During Hydraulic Fracture of an Oil Bearing Stratum

SOV/24-58-11-11/42

coarsely disperse suspensions as mixtures of liquid and sand; the experimental set-up is shown diagrammatically in the sketch, Fig.1. The basic liquid used in the experiments was glycerine and for obtaining various viscosities the glycerine was diluted with water; furthermore, sulphite-alcohol distillery refuse was used, which is frequently applied in the oil industry as a liquid for breaking up strata. As sand, quartz sand with the fractions 0.6-0.85 mm was used and in some of the experiments sand of other fractions was used. Curves calculated on the basis of the relations expressed by Eqs.(2.1), (2.8) and (2.11) are plotted in the graph, Fig.6; in the same graph the values determined in the here described experiments are also plotted. There are 6 figures and 1 Soviet reference.

ASSOCIATION: Institut nefti AN SSSR (Oil Research Institute, Ac.Sc.USSR)  
SUBMITTED: May 9, 1958

Card 2/2

ZHEJTOV, Yu.P.; ZOLOTAREV, P.P.

Linearizing equations of gasflow in fractured rocks. Nauch.-tekhn.  
sbor. po dob. nefti. no.20:17-20 '63. (MIRA 17:6)

KRYLOV, A.P., red.; AFANAS'YEVA, A.V., kand. tekhn.nauk, red.;  
 BORTSOV, Yu.P., doktor tekhn. nauk, red.; BRISKMAN, A.A.,  
 red., kand. tekhn. nauk; BUCHIN, A.N., kand ekon. nauk,  
 red.; VIRNOVSKIY, A.S., doktor tekhn. nauk, prof., red.;  
 ZHEITOV, Yu.P., kand. tekhn. nauk, red.; MAKSIMOV, M.I.,  
 kand. geol.-miner. nauk, red.; MARKOVSKIY, G.E., inzh.,  
 red.; MELIK-PASHAYEV, V.S., doktor geol.-miner. nauk, red.;  
 NIKOLAYEVSKIY, N.M., doktor ekon. nauk, prof, red.;  
 PETROVSKAYA, A.N., kand. geol.-miner. nauk, red.;  
 PILATOVSKIY, V.P., doktor fiz.-mat. nauk, red.; ROZENBERG,  
 M.D., doktor tekhn. nauk, red.; SAFRONOV, S.V., kand. tekhn.  
 nauk, red.

[Petroleum production; theory and practice. 1967 yearbook]  
 Dobycha nefti; teoriia i praktika. Ezhegodnik 1963. Moskva,  
 Nedra, 1964. 302 p. (MIRA 17:9)

1. Chlen-korrespondent AN SSSR (for Krylov). 2. Vsesoyuznyy  
 neftegazovyy nauchno-issledovatel'skiy institut (for Melik-  
 Pashayev, Rozenberg). 3. Institut mekhaniki AN SSSR (for  
 Nikolayevskiy).

BELOVA, I.F.; (Moskva); ZHELTOV, Yu.V. (Moskva); ZHELTOV, Yu.P. (Moskva)

Motion of suspensions in narrow horizontal cracks. PMTF no.2:136-140  
Mr-Apr '65. (MIRA 18:7)

ZHELTOV, Yu.P.

Mixing of mutually soluble fluids with various viscosities during their movement in a porous medium. Nauch.-tekhn. sbor. po dob. nefti no.24:34-40 '64. (MIRA 17:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

KURBANOV, A.K.; ROZENBERG, M.D.; ZHELTOV, Yu.P.; SHOVKRINSKIY, G.Yu.

Motion of multicomponent hydrocarbon mixtures in a porous medium.  
Nauch.-tekhn. sbor. po dob. nefti no.24:41-43 '64. (MIRA 17:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

ZHELTOV, Yu.P.; ROZENBERG, M.D.

Flow of multicomponent systems. Nauch.-tekhn.sbor.po dob.nefti  
no. 18:9-13 '62. (MIRA 17:6)

ZHELTOV, Yu.P.; ZHELTOV, Yu.V.

Modeling the process of rupturing in hydraulic fracturing of layer.  
Neft.khoz. 39 no.1:34-39 1 Ja 61.  
(MIRA 17:3)

BOKSERMAN, A.A.; ZHELTOV, Yu.P.; KOCHESHKOV, A.A.

Motion of immiscible liquids in a fissured porous medium. Dokl.  
AN SSSR 155 no.6:1282-1285 Ap '64. (MIRA 17:4)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.  
Predstavleno akademikom S.A.Khristianovichem.

BORISOV, Yu.P.; ZHELTOV, Yu.P.; KRYLOV, A.P.; ROZENBERG, M.D. (Moscow)

"New problems of underground mechanics in the oil field development"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

ZHELTOV, Yu.M. (Moskva); ZOLOTAREV, P.P. (Moskva)

Propagation of gas in fissured rocks. PMTF no.5:135-139 8-0  
'62. (MIRA 16:1)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.  
(Gas flow) (Rocks--Permeability)

ZHELTOV, Yu.P.

Considering the contraction of a porous medium in a homogeneous  
fluid flow. Trudy VNII no.37:3-13 '62. (MIRA 16:6)  
(Oil reservoir engineering) (Porosity)

ZHELTOV, Yu.P. (Moskva)

Modeling in petroleum engineering; review. PMTF no.4:134-152  
Jl-Ag '62. (MIRA 16:1)  
(Petroleum engineering)

ZHELTOV, Yu.P.; ZHELTOV, Yu.V.

Modeling the process of rupturing in hydraulic fracturing of layer.  
Neft.khoz. 39 no.1:34-39 1 Ja '61. (MIRA 17:3)

ZHELTOV, Yu.P. (Moskva)

Motion of a single-phase liquid in deformable fissured rocks of  
specifically jointy porosity. PMTF no.6:187-189 N-D '61.

(MIRA 14:12)

(Soil percolation)

S/124/61/000/009/041/058  
D234/D303

AUTHORS: Zheltov, Yu.P. and Zheltov, Yu.V.

TITLE: Simulating the process of expansion of cracks during hydraulic breaking of a stratum

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 9, 1961, 18, abstract 9 V154 (Nefte. kh-vo, 1961, no. 1, 34-39)

TEXT: A new approach to simulating expansion of cracks during the hydraulic breaking of a stratum is described. The authors analyze the relation between parameters characterizing the development of a crack in natural conditions and on a model and come to the relation

$$(Q\mu)_M = (Q\mu)_H \left( \frac{l_M}{q_H} \right)^3 \left( \frac{E_H}{E_M} \right)^2 \left( \frac{q_M}{q_H} \right)^3$$

where Q is the flow of the liquid,  $\mu$  - the viscosity of the liquid, E the Young Modulus of the rock, q - the mine pressure

Card 1/3

Simulating the process...

S/124/61/000/009/041/058  
D234/D303

ter's note: Gornoye davleniye: "mountain pressure" is also possible.  $l$  - the length of the crack, the indices  $H$  and  $h$  refer to natural conditions and model conditions respectively. On the basis of this equation the authors conclude that if linear dimensions of the model are taken to be  $1/100$  th of the natural dimensions (e.g. the length of the crack) and  $E_M = E_H$ ,  $q_M = q_H$ , the processes of crack expansion in nature and on the model will be similar only if the product of the flow and the viscosity of the liquid in the model is  $1/1,000,000$  of that in nature. The experimental realization of this is very difficult. The opinion of the authors is that a simpler way is to diminish the Young modulus of the material from which the model of the stratum is made. This will lead to a decrease in the mine pressure in the model which is also advantageous for the experiment. On the basis of this reasoning the authors describe an experimental installation, developed by them for investigating the processes of hydraulic stratum breaking. The principal part of the installation is a block made of porous white rubber which serves as the model of the elastic porous medium ( $E_M = 1.52$

Card 2/3

Simulating the process...

S/124/61/000/009/041/058  
D234/D303

kg/cm<sup>2</sup>). Some provisional data obtained on this installation  
do not agree with the corresponding data of the natural conditions.  
[Abstracter's note: Complete translation]

Card 3/3

BARENBLATT, G.I. (Moskva); ZHELTOV, Yu. P. (Moskva); KOCHINA, I. N. (Moskva)

Basic concepts in the theory of the flow of uniform fluids  
through fractured rocks. Prikl. mat. i mekh. 24 no.5:852-864  
S - O '60. (MIRA 14:3)  
(Oil reservoir engineering)

ZHELTOV, Yu.P. (Moskva)

Formation of irreversible fractures in rocks. Izv. AN SSSR, Otd.  
tekhn. nauk. Mekh. i mashinostr. no. 6:52-56 N-D '60. (MIRA 13:12)

1. Institut geologii razrabotki goryuchikh iskopayemykh Akademii  
nauk SSSR.

(Faults (Geology))

LOVINA, S.A.; ZHEITOV, Yu.P.; BELYAYEV, B.M.

Means for improving the hydraulic fracturing method. Neft.khoz. 38  
no.5:43-48 My '60. (MIRA 13:8)  
(Oil wells--Hydraulic fracturing)

ZHELTOV, Yu. P. (Moskva)

Modeling the fracturing in rocks. Izv. AN SSSR. Otd. tekhn. nauk.  
Mekh. i mashinostr. no. 4: 179-180 J1-Ag '59. (MIRA 12:8)  
(Rocks) (Geological modeling)

ZHELTOV, Yu. P., Cand Tech Sci -- (diss) "Studies of the  
mechanism of the hydraulic breaking of stratum." Mos,  
[Publication of Acad Sci USSR], 1957. 16 pp (Acad Sci USSR,  
Inst of Petroleum), 160 copies (KL, 52-57, 106)

- 49 -

DOROZHKIN, V.S.; ZHELTOV, Yu.V.; ZHELTOV, Yu.P. (Moskva).

Motion of mixture of liquid and sand in a well and in a crack  
during hydraulic fracture of an oil-bearing stratum. Izv. AN  
SSSR. Utd. tekhn. nauk. no.11:37-42 N '58. (MIRA 12:1)

1. Institut nefti AN SSSR.  
(Oil wells--Hydraulic fracturing)  
(Fluid dynamics)

ZHELT07, Yu.P.

Restoring bottom-hole pressure in a layer of uneven permeability  
in and outside well zones. Trudy Inst.nefti 11:184-192 '58.

(MIRA 11:12)

(Oil wells) (Water, Underground) (Rocks--Permeability)

ZHELTOV, Yu.V. (Moskva); KASIMOV, R.Sh. (Moskva)

Possibility of simultaneous formation of several fissures  
at hydraulic breaking of a bed. Izv. AN SSSR. Mekh. i  
mashinostr. no.6:85-87 N-D '63. (MIRA 17:1)

BELOVA, I.F.; (Moskva); ZHELTOV, Yu.V. (Moskva); ZHELTOV, Yu.P. (Moskva)

Motion of suspensions in narrow horizontal cracks. PMTF no.2:136-140  
Mr-Apr '65. (MIRA 18:7)

KASIMOV, R.Sh.; ZHELTOV, Yu.V.

Modelling hydraulic fracturing with fractured reservoir rocks.  
Nauch.-tekhn. sbor. po dob. nefi no.22:44-50 '64. (MIRA 17:9)

1. Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR.

ZHELTOV, Yu.V.

Pressure loss in pipes in hydraulic fracturing of strata. Neft.  
khoz. 38 no.8:9-13 Ag '60. (MIRA 13:8)  
(Oil wells--Hydraulic fracturing)

KOCHESHKOV, Aleksandr Anatol'yevich; ZHELTOV, Yuriy Vasil'yevich;  
TOSUNOV, Eduard Mikhaylovich; ANGELOPULO, Oleg Konstantinovich;  
KOVALEV, A.G., vneshniy red.; MAKRAKOVA, L.F., ved. red.;  
YAKOVLEVA, Z.I., tekhn. red.

[Practices in well completion in the United States] Opyt za-  
kanchivaniia skvazhin v SShA. Moskva, Gostoptekhiadat, 1962.

171 p.

(MIRA 16:2)

(United States--Oil fields--Production methods)

DOROZHNIKIN, V.S.; ZHEBITOV, Yu.V.; ZHEBITOV, Yu.P. (Moskva).

Motion of mixture of liquid and sand in a well and in a crack  
during hydraulic fracture of an oil-bearing stratum. Izv. AN  
SSSR. *Izd. tekhn. nauk.* no.11:37-42 N '58. (MIRA 12:1)

1. Institut nefti AN SSSR.  
(Oil wells--Hydraulic fracturing)  
(Fluid dynamics)

SOV/24-58-11-11/42

AUTHORS: Dorozhkin, V. S., Zheltov, Yu. V. and Zheltov, Yu. P.  
(Moscow)

TITLE: On the Movement of a Mixture of Liquid with Sand in the Well and in the Crack During Hydraulic Fracture of an Oil Bearing Stratum (O dvizhenii smesi zhidkosti s peskom v skvazhine i treshchine pri gidravlicheskom razryve neftenosnogo plasta)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 11, pp 37-42 (USSR)

ABSTRACT: In the process of hydraulic breaking up of an oil bearing stratum sand penetrates into the cracks which form in the rocks and the penetrated sand prevents the closing together of these rocks when the liquid pressure is reduced. Until the sand reaches the crack it has to travel a considerable distance along the vertical tube. Therefore, for selecting a rational technology of the process of breaking up a stratum it is important to know the hydro-mechanical picture of motion of a mixture of liquid with sand, both along the crack and in the vertical tube. Special experiments were carried out to verify whether available relations are applicable for such

Card1/2

SOV/24-58-11-11/42  
On the Movement of a Mixture of Liquid with Sand in the Well and  
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coarsely disperse suspensions as mixtures of liquid and sand; the experimental set-up is shown diagrammatically in the sketch, Fig.1. The basic liquid used in the experiments was glycerine and for obtaining various viscosities the glycerine was diluted with water; furthermore, sulphite-alcohol distillery refuse was used, which is frequently applied in the oil industry as a liquid for breaking up strata. As sand, quartz sand with the fractions 0.6-0.85 mm was used and in some of the experiments sand of other fractions was used. Curves calculated on the basis of the relations expressed by Eqs.(2.1), (2.8) and (2.11) are plotted in the graph, Fig.6; in the same graph the values determined in the here described experiments are also plotted.

There are 6 figures and 1 Soviet reference.

ASSOCIATION: Institut nefti AN SSSR (Oil Research Institute,Ac.Sc.USSR)  
SUBMITTED: May 9, 1958

Card 2/2

S/124/61/000/009/041/058  
D234/D303

AUTHORS: Zheltov, Yu.P. and Zheltov, Yu.V.

TITLE: Simulating the process of expansion of cracks during hydraulic breaking of a stratum.

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 9, 1961, 18, abstract 9 V154 (Nefte. kh-vo, 1961, no. 1, 34-39)

TEXT: A new approach to simulating expansion of cracks during the hydraulic breaking of a stratum is described. The authors analyze the relation between parameters characterizing the development of a crack in natural conditions and on a model and come to the relation

$$(Q\mu)_M = (Q\mu)_H \left(\frac{E_M}{E_H}\right)^3 \left(\frac{q_M}{q_H}\right)^2 \left(\frac{q_H}{q_M}\right)^3$$

where Q is the flow of the liquid;  $\mu$  - the viscosity of the liquid, E the Young Modulus of the rock, q - the mine pressure

Card 1/3

Simulating the process...

S/124/61/000/009/041/058  
D234/D303

ter's note: Gornoye davleniye: "mountain pressure" is also possible. 1 - the length of the crack, the indices H and M refer to natural conditions and model conditions respectively. On the basis of this equation the authors conclude that if linear dimensions of the model are taken to be 1/100 th of the natural dimensions (e.g. the length of the crack) and  $E_M = E_H$ ,  $q_M = q_H$ , the processes of crack expansion in nature and on the model will be similar only if the product of the flow and the viscosity of the liquid in the model is 1/1,000,000 of that in nature. The experimental realization of this is very difficult. The opinion of the authors is that a simpler way is to diminish the Young modulus of the material from which the model of the stratum is made. This will lead to a decrease in the mine pressure in the model which is also advantageous for the experiment. On the basis of this reasoning the authors describe an experimental installation, developed by them for investigating the processes of hydraulic stratum breaking. The principal part of the installation is a block made of porous white rubber which serves as the model of the elastic porous medium ( $E_M = 1.52$

Card 2/3

Simulating the process...

S/124/61/000/009/041/058  
D234/D303

kg/cm<sup>2</sup>). Some provisional data obtained on this installation  
do not agree with the corresponding data of the natural conditions.  
[Abstracter's note: Complete translation]

Card 3/3

ZHELTOVA, A.Y., aspirant; BARAMBOYM, N.K., doktor khimicheskikh nauk, prof.

Studying the properties of the dispersions of protein copolymers.  
Nauch. trudy MTsLP no.30:18-25 '64. (MIRA 18:6)

1. Kafedra fizicheskoy i kolloidnoy khimii Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

POTAPOV, N.P.; ZHELTOVA, G.P.

Temperature coefficients of quality factor measures. Izv. tekhn.  
no.1:52-55 Ja '64. (MIRA 17:11)

DEVYATNIN, V.A.; SOLUNINA, I.A.; FEDOROVA, G.A.; MEL'NIKOVA, Ye.Ya.;  
SAMSONOVA, G.S.; ZHELTOVA, I.S.

Vitamin loss in cooking. Trudy VNIVI 8:93-96 '61. (MIRA 14:9)

1. Khimiko-analiticheskaya laboratoriya Vsesoyuznogo nauchno-  
issledovatel'skogo vitaminnogo instituta.  
(Vitamins)

USCR  
Card  
Authors  
Title  
Periodical : Vest. AN SSCR 25/7, 125-128. Jul 1975  
Abstract :  
Submitted : .....

GEORGIYEVA, S.A., prof.; BELIKINA, N.V.; ZHELTOVA, O.P.; IVANOVSKAYA,  
Ye.M.; PROKOF'YEVA, L.I.; PROSTYAKOVA, V.I.

[Manual for the practical study of normal physiology] Ucheb-  
noe posobie k prakticheskim zaniatiyam po normal'noi fiziolo-  
gii. Sost.S.A.Georgievoy i dr. Saratov, 1963. 148 p.

(MIRA 17:3)

1. Saratov. Meditsinskiy institut.

ZHELTOVA, O.P.

Reflex influences from the vestibular apparatus on blood coagulability  
Trudy Sar. gos. med. inst. 26:17-19 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra normal'noy fiziologii  
(zav.prof. Ye.S. Ivanitskiy-Vasilenko).  
(VESTIBULAR APPARATUS) (REFLEXES) (BLOOD---COAGULATION)

ZHELTOVA, O. P., Candidate Med Sci (diss) -- "Reflex influence of the vestibular apparatus on the coagulability of the blood". Saratov, 1959. 11 pp (Min Health RSFSR, Saratov State Med Inst), 200 copies (KL, No 25, 1959, 140)

ZHELTOVA, R.R.

36863. Klimaks i gipertonicheskaya bolezni'. Trudy Uzbek. gos. nauch.-issled. in-ta kurortologii i fizioterapii im. Semashko, sb. 11, 1949, c. 218-23

SO: Letopis' Zhurnal'Nykh Statey, Vol. 50, Moskva, 1949

ZHELTOVA, S.M.

Histogenesis of the fibrous cartilage of intervertebral disks during intrauterine development of rabbits. Dokl. AN SSSR. 144, no.6:1373-1376 Je '62. (MIRA 15:6)

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR. Predstavleno akad. Yu.A.Orlovym.  
(Embryology--Mammals) (Intervertebral disk)

KHOMYAKOV, P.P.; ZHELTOVA, V.I.; ADLER, Yu.P.; NALIMOV, V.V.

Study of heat conductivity of distillates formed during  
chlorination of titanium slag in the melt. Zav.lab. 29  
no.3:330-331 '63. (MIRA 16:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy  
institut reftometallicheskoy promyshlennosti.

(Titanium compounds)

(Chlorination)

(Heat capacity)

L 39797-66 EWT(m)/EWP(j) RM/CD-2

ACC NR: AP6012080

SOURCE CODE: UR/0062/65/000/005/0895/0898

AUTHOR: Sonyavina, L. B.; Sheynker, Yu. N.; Zheltova, V. N.; Dombrovskiy, A. V.;  
Shevchuk, M. I.; Kabachnik, M. I.; Mastryukova, T. A.; Melent'yeva, T. A.

ORG: Institute of the Chemistry of Natural Compounds, AN SSSR (Institut khimii  
prirodnykh soedineniy AN SSSR)

TITLE: Infrared spectra of aroylmethylenetriphenylphosphoranes and their salts

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1965, 895-898

TOPIC TAGS: IR spectrum, organic salt, organic phosphorous compound, electron donor,  
cyclic group

ABSTRACT: The integral intensities of the carbonyl absorption in the infrared spectra of aroylmethylenetriphenylphosphoranes (in which the carbonyl group is bonded to a phenyl ring) and their salts were measured. The data were considered from the standpoint of electron donor and electron acceptor properties of the phosphorus atom and the aromatic rings of the aroyl group, as well as the influence of substituents in the aromatic ring on the absorption intensity. The addition of an aromatic group to the carbonyl in phosphoranes led to a decrease in the frequency and intensity of the valence vibration of the carbonyl group in comparison with the corresponding aliphatic derivatives, evidently as a result of the functioning of the aromatic ring as an electron acceptor, competing with the carbonyl group for electrons from the strong electron-donor phosphorus atom. The frequency and in-

Card 1/2

UDC: 543.422

L 39797-66

ACC NR: AF6012080

Intensity of the C=O vibration are also determined by the configuration of the molecule, determined in turn by the size of the substituent at the carbonyl group. In phosphorane salts, the tetravalent positive phosphorus plays the role of an electron acceptor, resulting in a sharp drop in the intensity of the C=O band in comparison with phosphoranes. The absorption bands in the region of 1317-1390  $\text{cm}^{-1}$  for arylmethylenetriphenylphosphoranes and 1389-1412  $\text{cm}^{-1}$  for aroylmethyltriphenylphosphoranes were tentatively assigned to the vibration of the P=C band. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 20Jul64 / ORIG REF: 005 / OTH REF: 004

Card 2/2 M.L.P

KASATKINA, I.D.; ZHELTOVA, Ye.G.

Methods of selecting *Aspergillus niger* mutants with an altered capacity to synthesize organic acids. *Mikrobiologiya* 34 no.3:511-518 My-Je '65. (MIRA 18:11)

1. Institut mikrobiologii AN SSSR.

KASATKINA, I.D.; ZHELTOVA, Ye.T.

Cystine reductase activity in *Aspergillus niger*. Mikrobiologiya  
32 no.6:973-980 N-D '63 (MIRA 18:1)

1. Institut mikrobiologii An SSSR.

ZUSMAN, L.I.; DUSHAK, A.A.; ZHARKOVA, V.A.; ZHEITOVSKAYA, A.A.

Methods of determining the volume and the composition of the  
U.S.S.R. metal stock by Union Republics and economic regions.  
Sbor. trud. TSNICHM no.45:57-67 '65. (MIRA 18:9)

ZHEITOVSKY, L.K.; SPIRINA, M.S.

Comparative data of the biological and calorimetric methods in the control of the activity of preparations containing cardiac glycosides. Apt. delo 14 no.6:70-72 N-6 165.

1. Osnovnyy sblastnaya kontrol'no-analiticheskaya laboratoriya aptekopravleniya. (MIRA 18:12)

FRIDLYANDER, I.N.; ROMANOVA, O.A.; ARCHAKOVA, Z.N.; GUR'YEV, I.I.;  
DRONOVA, N.P.; PETROVA, A.A.; BYCHKOVA, Z.S.; Primali  
uchastiye: FOMIN, K.N.; LEBEDEVA, N.S.; REZNIK, P.G.;  
AVERKINA, N.; ZHELTOVSKAYA, L.S.; VOROB'YEV, Yu.A.;  
TYURIN, N.N.

Manufacture and investigation of semifinished products from  
high-strength and heat-resistant VAD23 aluminum alloys.  
Alum. splavy no.3:194-200 '64. (MIRA 17:6)

ZHELTOVSKAYA, H.I.

Medical service by shop for workers of the Izhevsk Metallurgical  
Factory. Zdrav.Ros.Feder. 3 no.6:13-16 Je '59.

(MIRA 12:6)

1. Iz mediko-sanitarnoy chasti Izhevskogo metallurgicheskogo  
zavoda i kafedry organizatsii zdavookhraneniya (zav. - dotsent  
M.M.Vilenskiy) Izhevskogo meditsinskogo instituta.  
(IZHEVSK--INDUSTRIAL MEDICINE)

ZHELTOVSKAYA, M.I.

Effectiveness of outpatient service at the Izhevsk Metallurgical Plant. Zdrav. Ros. Feder. 5 no. 2:20-23 F '61. (MIRA 14:2)

1. Iz kafedry organizatsii zdravookhraneniya (zav. - dotsent M.M. Vilenskiy) i mediko-sanitarnoy chasti (nachal'nik M.I. Zheltovskaya) Izhevskogo metallurgicheskogo zavoda.  
(IZHEVSK—METALWORKERS—MEDICAL CARE)

ZHELTOVSKAYA, M.I., kand.med.nauk

Effectiveness of dispensary treatment of patients suffering from diseases with a protracted course; based on the experience of the Izhevsk Metallurgical Plant. Zdrav.Ros.Feder. 6 no.12: 9-10 D '62. (MIRA 16:1)

1. Iz kafedry organizatsii zdravookhraneniya Izhevskogo meditsinskogo instituta (zav. - dotsent M.M.Vilenskiy) i mediko-sanitar-noy chasti metallurgicheskogo zavoda (glavnyy vrach M.I.Zheltovs-kaya).

(IZHEVSK--CHRONIC DISEASES)

PASHUK, Andrey Iosipovich; DERKACH, Ivan Stepanovich; ZHELTOVSKIY, P.;  
DOROSHENKO, M., red.; GAPON, Yu., tekhnred.

[Lvov; a guidebook] L'vov; putevoditel'. L'vov, Knyzhno-  
zhurnal'noe izd-vo, 1960. 142 p. (MIRA 14:2)  
(Lvov--Guidebooks)

ZHELTOVSKIY, Ye.

Work conditions on merchant ships. Mor.flot 23 no.2117-19 F '63.  
(MIRA 16:2)

1. Glavnyy mekhanik ledokola "Leningrad" Murmanskogo  
parokhodstva.

(Merchant seamen—Legal status, laws, etc.)

Country : Bulgaria T  
 Category : Human and Animal Physiology, Circulation  
 Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8087  
 Author : Zhelyazkov, D.; Angelov, A.; Nikolov, A.; Kazakova, A.; Chu-  
 Institut. : Ieva, A.; Mushmov, D.; Ignatova, E.; Nikolova, M.; Minchev, T.  
 Title : The Effect of the Bulgarian Synthetic Estrogenic Prepa-  
 ration "Vitestrol" on Blood Pressure.  
 Orig Pub. : Izv. Otd. biol. i med. nauki. Bolg. AN. Ser. eksperim.  
 biol. i med., 1957, No. 1, 47--55  
 Abstract : Vitestrol was injected in doses of 0.5, 1.3 and  
 5 mg/kg into normal, atropinized, vagotomized and de-  
 cerebrate cats, as well as into cats with carotid  
 sinuses removed. Vitestrol lowered blood pressure by  
 16--35% (depending upon the dose) within 72--395 seconds.  
 There were no substantial differences between the normal  
 and the operated animals. It is suggested that vitestrol  
 acts directly upon the smooth muscle elements of the  
 vessel walls.--S.B.Stefanov.

Card: 1/1

ZHELTOVSKIH, R. S.

"The Importance of the Works of K. K. Petrova for Dermatology."

Vestnik venerologii i dermatologii (Bulletin of Venerology Dermatology);  
No 1, January-February 1954, (biomper), Moscow.

ZHEITOVSKIY, Ya.

Increase the role of the foreman in industry. Mor.flot 15 no.12:  
19-20 D '55. (MLRA 9:3)

1. Nachal'nik Glavmorproma.  
(Foremen) (Mechanical engineering)

ZHELTOVSKIY, Ye.

We should untiringly strive to improve the performance of  
merchant marine. Mor. flot 15 no.7:1-4 J1 '55.

(MIRA 8:9)

1. Nachal'nik Glavmorproma Ministerstva morskogo flota  
(Merchant marine)

ZHELUKHA, A.P., gornyy inzhener.

Standardisation of designs for underground stores for the  
distribution of explosives. Gor.zhur.no.11:27 N '55.  
(Explosives--Safety measures) (MLRA 9:1)

ZHELTUKHIN, D.V.

150th Anniversary of the discovery of catalytic hydrolysis of  
polysaccharides. Kin.i kat. 3 no.2:301 Mr-Ap '62.

(Polysaccharides)

(Hydrolysis)

(MIRA 15:11)

ZHELTUKHIN, D. V.

19177

USSR/Chemistry - Hydrolysis of Cellulose Jul/Aug 51

"Discussion on the Mechanism of Hydrolysis of Cellulose at the All-Union Institute of the Hydrolysis Industry," D. V. Zheltukhin

"Uspekhi Khim" Vol XX, No 4, pp 511, 512

Reports on papers presented at a meeting (Leningrad, 20-22 Nov 50) arranged by the All-Union Inst of Hydrolysis Industry, Ministry of Timber and Paper Industry, USSR, and subsequent discussion. Mentioned: It is necessary to

19177

USSR/Chemistry - Hydrolysis of Cellulose (Contd) Jul/Aug 51

create artificially in cellulose labile bonds which will lighten the rate of hydrolysis and thus overcome the impeding effect of phys structure. Introduction of carboxyl groups facilitates hydrolysis at high temps. The way to improve yields of hydrolysis sugar is bringing of cellulose into an easily hydrolyzable state.

19177

1. ZHELTUKHIN, D. V.
2. USSR (600)
4. Hydrolysis
7. Hydrolytic industry, Khim. v shkole No. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.



ZHELTUKHIN, D.V.

Effect of glucose concentration on its decomposition during heating in diluted sulfuric acid. Zhur.prikl.khim. 26 no.8:882-885 Ag '53. (MLRA 6:8)

1. Vsesoyuznyy Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirovoy promyshlennosti.  
(CA 47 no.22:11917 '53) (Glucose)

2

ZHELTUKHIN, D.

"Story about a piece of wood." B.IA.Rosen. Reviewed by D.Zheltukhin. Zhur.prikl.khim. 27 no.12:1334-1336 D '54. (MIRA 8:2)  
(Wood) (Rosen, B.IA.)

USSR/Chemistry - Food

Card 1/1 : Pub. 86, 15/46

Authors : Zheltukhin, D. V., Can. Tech. Sci.

Title : New edible acid

Periodical : Priroda 43/9, 85-86, Sep 1954

Abstract : The article explains the process of producing xylose from vegetable material and then converting this into trioxylglutaric acid, which is used extensively by bakers and found to be far more economical than lemon juice.

Institution : ..... Leningrad, Order Lenin Wood Technology Acad. in S. M. Kirov

Submitted : .....

ZHELTUKHIN, D.V. (Leningrad)

"Dry ice" made from the by-products of hydrolytic alcohol production. Khim.v shkole 11 no.5:14-15 8-0 '56. (MLRA '9:11)

(Dry ice) (Alcohol)

ZHEIATUKHIN, D.

Once more on errors and distortions in B.IA. Rosen's books of  
popular science. Zhur. prikl. khim. 29 no.12:1899-1900 D '56.  
(Bibliography--Chemistry) (MLRA 10:6)  
(Rosen, B.IA.)

ZHELTUKHIN, D.V., kandidat tekhnicheskikh nauk.

Recent developments in the chemistry and technology of lignin.  
Priroda 45 no.9:111-112 S '56. (MIRA 9:10)

1. Lesotekhnicheskaya akademiya imeni S.M.Kireva, Leningrad.  
(Lignin)

Communication on the work of the conference on the chemistry and technology of  
lignin held in June 1956.

TRANS - U-3,053,420, 13 Feb. 57

**"APPROVED FOR RELEASE: 03/15/2001**

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ZHELEZNIKOV, D.V., kandidat tekhnicheskikh nauk.

A chlorophyll-carotene paste from conifer leaves. Priroda 46  
no.7:112 J1 '57. (MLRA 10:8)

1. Lesotekhnicheskaya akademiya im. S.M. Kirova, Leningrad.  
(Coniferae) (Ointments)

ZHELTUKHIN, D.V., kand. tekhn. nauk (Leningrad).

Glucose from wood, Priroda 46 no.8:113-114 Ag '57. (MLRA 10:9)  
(Krasnoyarsk Territory--Glucose industry)

DUDCHKIN, P.P. (Kalinin); ZHELTUKHIN, D.V. (Leningrad);  
VLADIMIROV, S.V. (Moskva); DMITRIYEVSKIY, Yu.D. (Vologda)

New books. Priroda 53 no.2:17,25,31,42 '64.

(MIRA 17:2)

ZHELTUKHIN, D.V.

"Riga method of hydrolysis," by V.K. Kal'nina, I.I. Beinart,  
B.M. Taubin, Reviewed by D.V. Zheltukhin. *Gidroliz. i lesokhim.*  
prom. 14 no.8:27 '61. (MIRA 16:11)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M. Kirova.

ZHELTUKHIN, D.V., dotsent

Prominent scientist, educator, and historian of chemistry. Khim. v  
shkole 18 no.6:17-18 N-D '63. (MIRA 17:1)

1. Leningradskaya lesotekhnicheskaya akademiya imeni S.M.Kirova.

ZHELTUKHIN, D.V.

New book on furfurole. Plast.massy no.7:78 '63. (MIRA 16:8)  
(Furaldehyde)

BOGOMOLOV, V.S., inzh. (g. Novouzensk); PAVLIKOVA, V.M., uchitel'nitsa;  
ZHELTUKHIN, D.V., dotsent; TSLAF, N.Z., uchitel'

Editor's mail. Khim.v shkole 18 no.2:82-83 Mr-Apr '63.

(MIRA 16:4)

1. Srednyaya shkola No.39, Bryansk (for Pavlikova).
2. Lesotekhnicheskaya akademiya, Leningrad (for Zheltukhin).
3. Srednyaya shkola No.5, Moskva (for Tslaf).

(Chemistry--Experiments)

(Building materials)

ZHELTUKHIN, D.V.

New book on furfural. Gidroliz. i lesokhim. prom. 16 no.4:  
30 '63. (MIRA 16:7)

1. Leningradskaya lesotekhnicheskaya akademiya im. S.M. Kirova.  
(Furfural)

ZHELTUKHIN, D.V.

"Chemical laboratory of M.V.Lomonosov" by N.M.Raskin. Reviewed  
by D.V.Zheltukhin. Khim.v shkole 18 no.2:90 Mr-Apr '63.

(Lomonosov, Mikhail Vasil'evich, 1711-1765) (MIRA 16:4)  
(Chemistry) (Raskin, N.M.)

ZHELTUKHIN, D.V., dotsent

Wood ashes are a valuable local fertilizer. Khim. v shkole 17  
no.1:86-87 Ja-F '62. (MIRA 15:1)

1. Lesotekhnicheskaya akademiya, Leningrad.  
(Ashes (Fertilizer))

ZHELTUKHIN, D.V. (Leningrad)

On the occasion of the 150th anniversary of the discovery of the  
hydrolysis reaction of polysaccharides. Khim. v shkole 17 no.2:  
16 Mr-Apr '62.

(Polysaccharides)

(MIRA 15:3)

ZHELTUKHIN, D.V.

"Forest treasures" by G.V. Krylov. Reviewed by D.V. Zheltukhin.  
Priroda 49 no. 12:121 D '60. (MIRA 13:12)

1. Leningradskaya lesotekhnicheskaya Akademiya imeni S.M.  
Kirova.  
(Siberia--Forests and forestry)  
(Krylov, G.V.)

ZHELTUKHIN, D.V., kand.tekhn.nauk

Book on carbonic acid. Gidroliz.i lesokhim.prom. 13 no.5:31  
'60. (MIRA 13:7)  
(Carbonic acid)

ZHELTUKHIN, D.V.

Distinguished scientist, teacher, and chemistry historian; on the  
25th anniversary of B.N.Menshutkin's death. Zhur.ob.khim. 33 no.  
12:3787-3788 D '63.  
(MIRA 17:3)

ZHELTUKHIN, D.V.

People's China is developing the production of hydrolytic  
furfurol. Gidroliz. i lesokhim.prom. 13 no.3:30 '60.  
(China--Furaldehyde) (MIRA 13:7)

IPAT'YEV, V.V. [deceased]; ZHELTUKHIN, D.V.; KOR BUT, V.A.; GUREVICH,  
D.Ya.

Reasons for the scaling of sheet steel. Trudy LTA no.80  
pt.2:57-64 '58. (MIRA 13:4)  
(Sheet steel)

IPAT'YEV, V.V., prof. [deceased]; ZHELTUKHIN, D.V., inzh.

Nickel oxidation in sulfur dioxide at high temperatures. Metalloved.  
1 obr. met. no.12:42-45 D '58. (MIRA 11:12)

1. Leningradskaya lesotekhnicheskaya akademiya imeni S.M. Kireva.  
(Nickel) (Metals at high temperature)  
(Sulfur dioxide)

ZHELTYKHIN, D.V., dots.; NIKITIN, V.M., prof., red.; GRUBE, A.E., prof., red.;  
GUBIN, M.M., prof., red.; GOZMAN, M.S., tekhn. red.

[S.M.Kirov Academy of Lumbering in Leningrad; a handbook]  
Leningradskaya ordena Lenina lesotekhnicheskaya akademiya imeni  
S.M.Kirova. Spravochnik. Leningrad, Izd. nauchno-issl. sektora,  
1956. 36 p.  
(MIRA 11:11)

1. Russia(1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.  
(Leningrad--Lumbering--Study and teaching)

137-58-4-7717

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 194 (USSR)

AUTHORS: Ipat'yev, V. V., Zheltukhin, D. V., Kleyменова, L. I.

TITLE: The Kinetics of Copper Scaling by Atmospheric Oxygen and Sulfur Dioxide at Elevated Temperatures (O kinetike okalinoobrazovaniya medi s kislorodom vozdukh i sernistym gazom pri vysokikh temperaturakh)

PERIODICAL: Byul. nauchno-tekhn. inform. po rezul'tatam nauchno-issled. rabot. Leningr. lesotekhn. akad., 1957, Nr 47, pp 22-26

ABSTRACT: Intermittent weighing is used to study oxidation (O) processes occurring in Cu in air and in SO<sub>2</sub> during a five-hour period at 700, 800, and 900°C. It is shown that the O process follows a parabolic law and that the O rate of Cu in SO<sub>2</sub> is lower than in air, and that this difference increases with rise in temperature. In both cases, the scale consists chiefly of the Cu<sub>2</sub>O phase. Constants for the rate of scale formation in the media and at the temperatures and holding times investigated have been calculated.

Card 1/1

1. Copper--Oxidation--Analysis

G. M.